Belt driven isolated fan casing type MVBS MXF/MXF-W

Double skinned ventilation box belt driven with optional integrated warm water battery

Application

- Ventilation for non-residential or industrial buildings requesting air flows up to 21.000 m^3/h
- Can be used for air intake as well as exhaust
- Designed to meet the highest standards in thermal and acoustic insulation
- In- and outdoor installation possible
- Equipped with G4 filter, additionel casing with F7 filter available
- Integrated warm water battery with 2 or 4 rangs possible for model MXF-W
- Optional: additionel casing with electrical or cold water battery

Composition

- Structure with aluminium profiles
- Corners in reinforced polyamide
- Interchangeable, removable panels allowing any type of installation (standard right)
- Outer layer: prelacquered steel plate (RAL 9010)
- Insulation : high-quality glass wool, 25 mm M0 for models 12/7-33/15 and 50 mm M0 for model 34/18
- Inside in galvanized steel plate
- Footrests included (4 or 6 feet depending on the model) or optional galvanized steel frame
- Panels with circular connection with lip seals
- Horizontal outlet, vertical optional
- Sliding rails with lip seals for filter, thickness of 100 mm
- Galvanized filter frame with EU4 / G4 filter M1

Fan

- Belt driven double inlet centrifugal fan, forward curved blades
- Supply: 230/400Vac 3ph until 9 kW
- Motor with thermal protection PTO, IP55, class F
- Transmission double pulley with V-belt
- Complete fan and motor frame mounted on anti-vibration mounts
- Motor on adjustable trolley ensuring its reliable and rigid blocking and giving an efficient belt tension
- Flexible connection between fan and exhaust panel

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Accessories

- Casing with G4/F7 filter
- Flexibel connectors, type **MTS**
- Safety switch, type **MVX IPC**
- Electrical heating module, type **MX-E**
- Hot/chilled water heating battery, **MX-W**

Selection curves

MAXTAIR 12/7
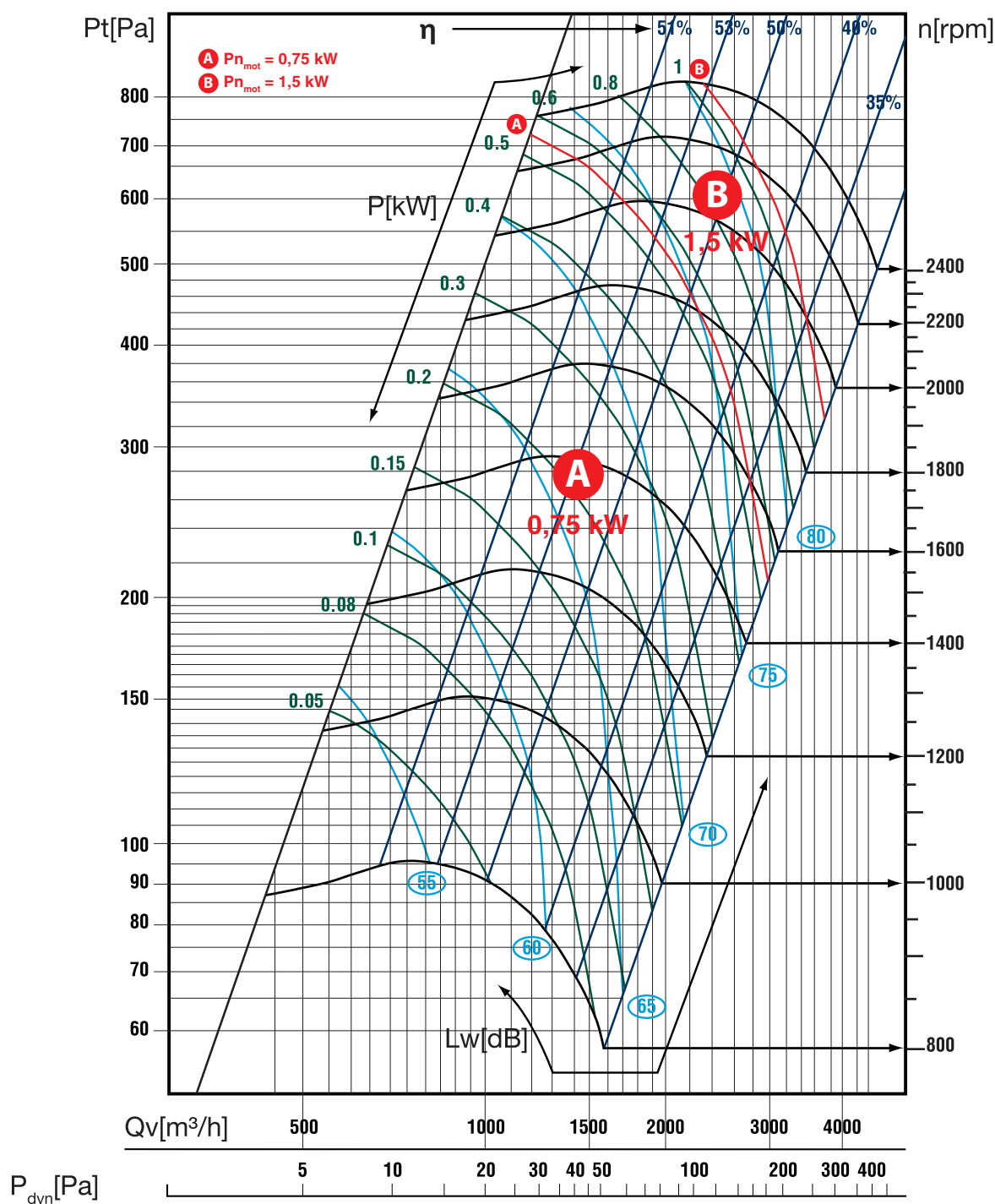
Pt[Pa] = Pression totale (Pt = Pstat + Pdyn)
n[rpm] = Rotation speed
η = Fan efficiency
P[kW] = Axle power
Lw[dB] = Acoustic power
Qv[m³/h] = Flow rate
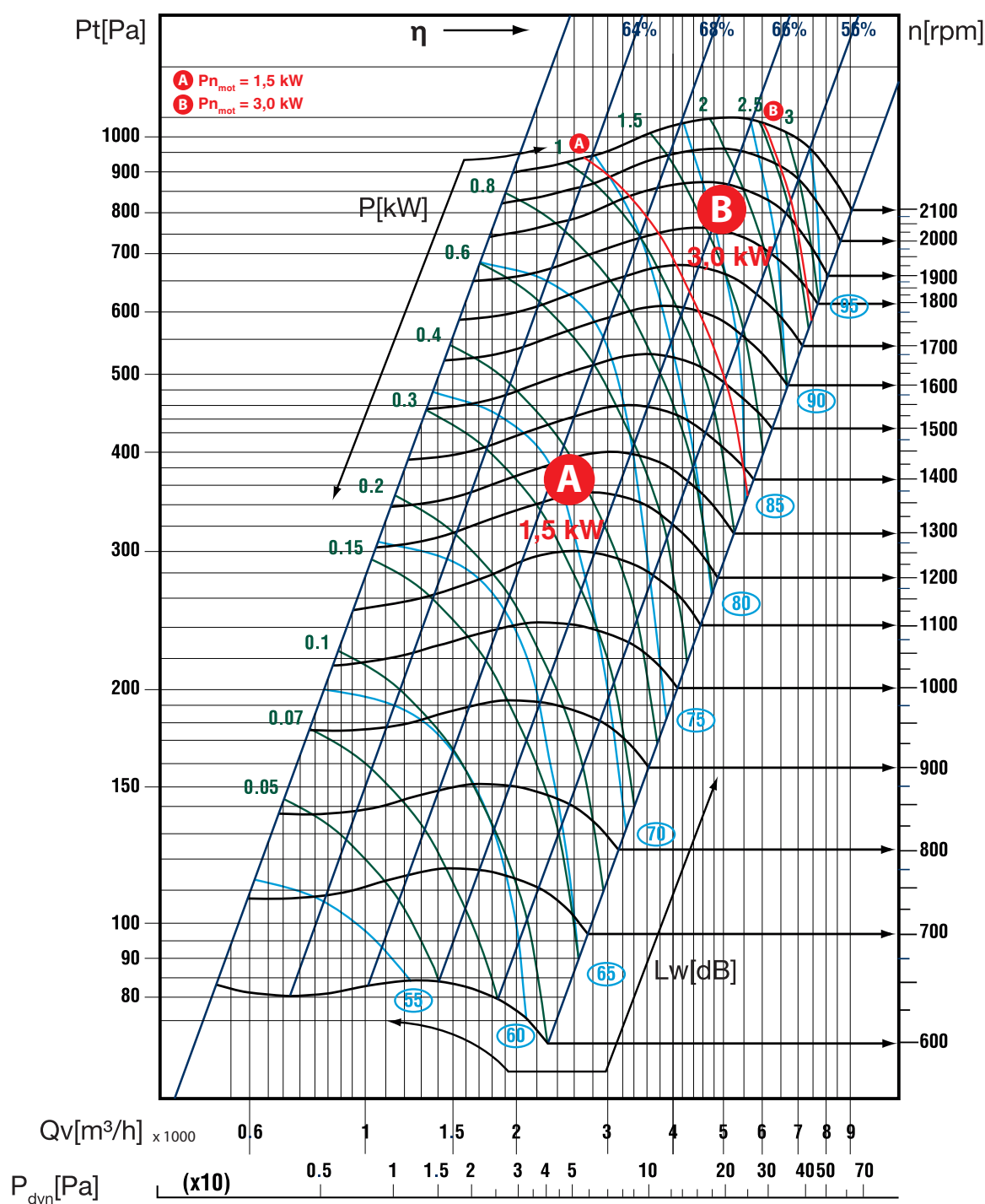P_{dyn}[Pa] = Dynamic pressure (fan connected to the air exhaust)
Pn_{mot} = Nominal power motor
A: Association limit from a turbine with size 12/7 on a motor with nominal power of 0,75 kW
B: Association limit from a turbine with size 12/7 on a motor with nominal power of 1,5 kW

Selection curves

MAXTAIR   22/9

Pt[Pa] = Pression totale (Pt = Pstat + Pdyn)
n[rpm] = Rotation speed
η = Fan efficiency
P[kW] = Axle power
Lw[dB] = Acoustic power
Qv[m³/h] = Flow rate
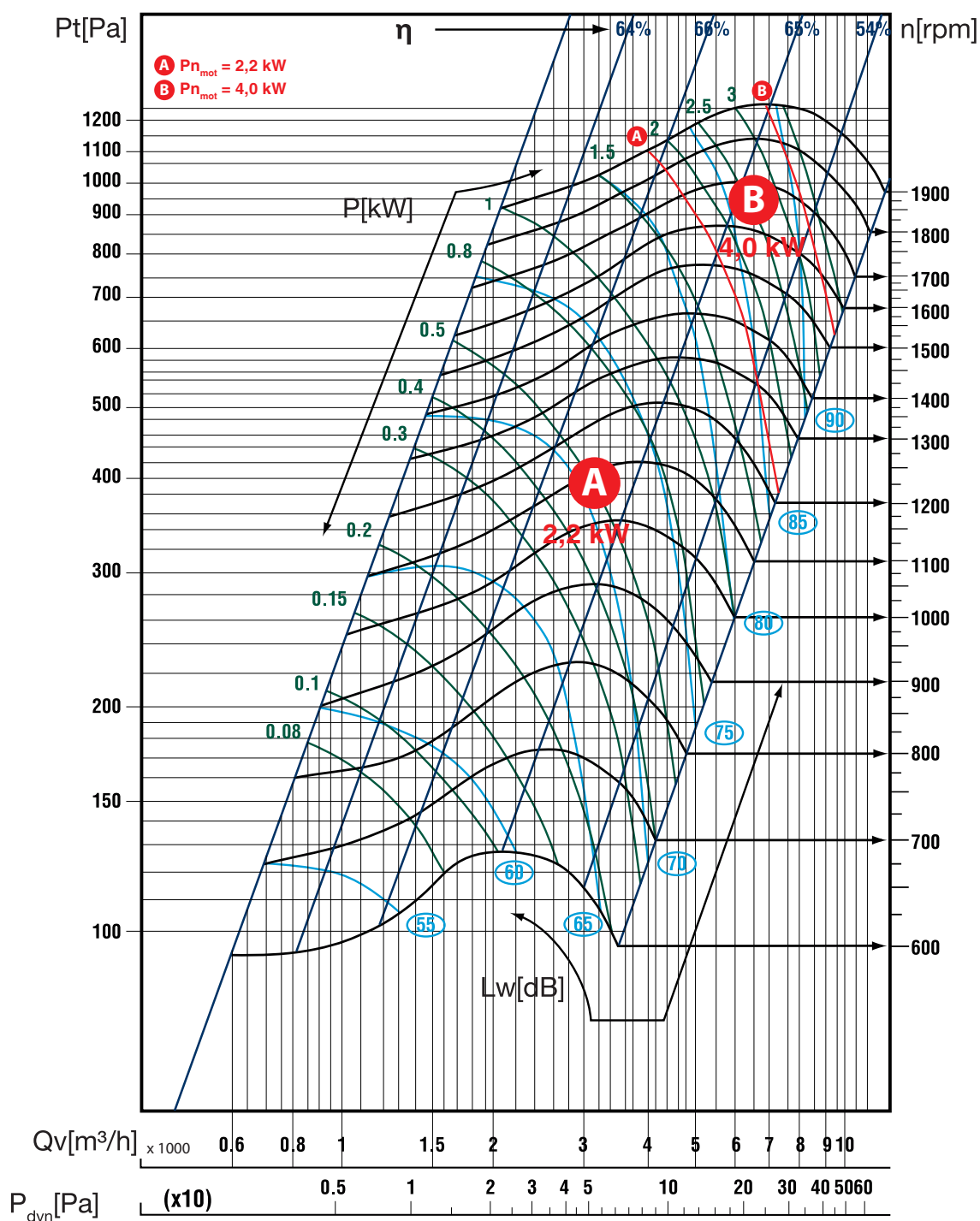P_{dyn}[Pa] = Dynamic pressure (fan connected to the air exhaust)
Pn_{mot} = Nominal power motor
A: Association limit from a turbine with size 22/9 on a motor with nominal power of 1,5 kW
B: Association limit from a turbine with size 22/9 on a motor with nominal power of 3 kW

Selection curves

MAXTAIR 22/10

Pt[Pa] = Pression totale (Pt = Pstat + Pdyn)
n[rpm] = Rotation speed
η = Fan efficiency
P[kW] = Axle power
Lw[dB] = Acoustic power
Qv[m³/h] = Flow rate
P_{dyn}[Pa] = Dynamic pressure (fan connected to the air exhaust)
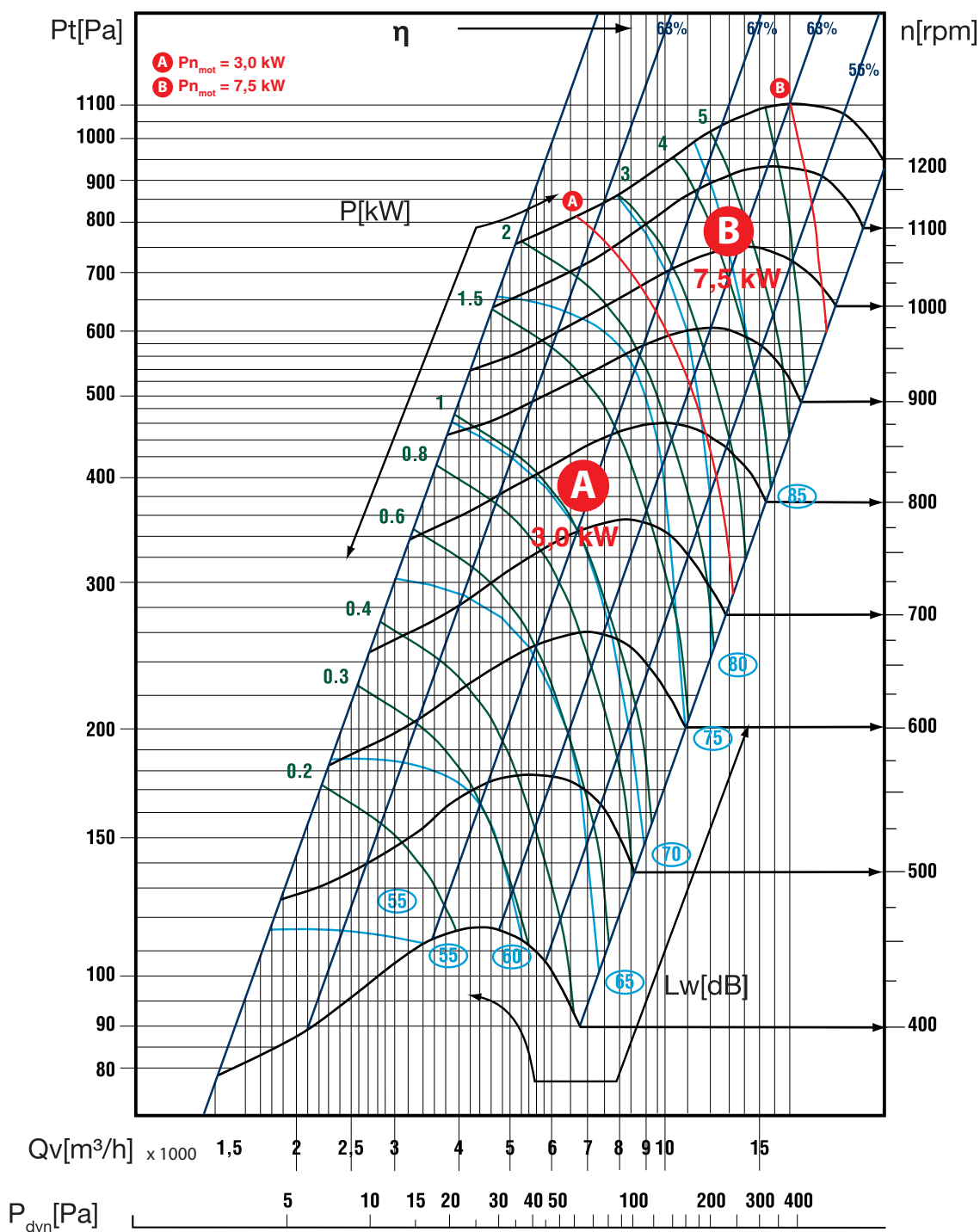Pn_{mot} = Nominal power motor
A: Association limit from a turbine with size 22/10 on a motor with nominal power of 2,2 kW
B: Association limit from a turbine with size 22/10 on a motor with nominal power of 4 kW

Selection curves

MAXTAIR 33/15

Pt[Pa] = Pression totale (Pt = Pstat + Pdyn)
n[rpm] = Rotation speed
η = Fan efficiency
P[kW] = Axle power
Lw[dB] = Acoustic power
Qv[m³/h] = Flow rate
P_{dyn}[Pa] = Dynamic pressure (fan connected to the air exhaust)
Pn_{mot} = Nominal power motor
A: Association limit from a turbine with size 33/15 on a motor with nominal power of 3 kW
B: Association limit from a turbine with size 33/15 on a motor with nominal power of 7,5 kW

Selection curves

MAXTAIR 34/18

Pt[Pa] = Pression totale (Pt = Pstat + Pdyn)
n[rpm] = Rotation speed
η = Fan efficiency
P[kW] = Axle power
Lw[dB] = Acoustic power
Qv[m³/h] = Flow rate
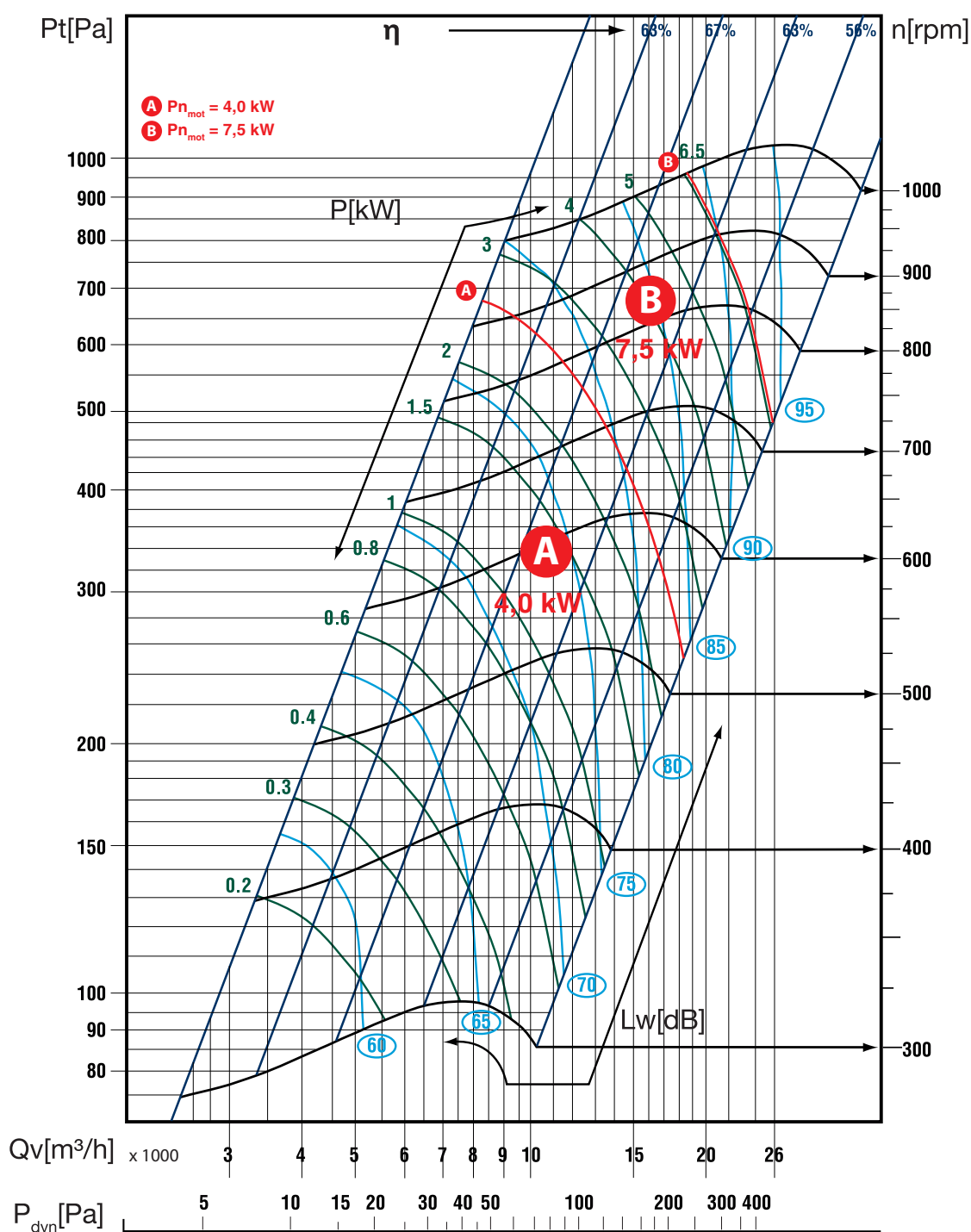P_{dyn}[Pa] = Dynamic pressure (fan connected to the air exhaust)
Pn_{mot} = Nominal power motor
A: Association limit from a turbine with size 34/18 on a motor with nominal power of 4 kW
B: Association limit from a turbine with size 34/18 on a motor with nominal power of 7,5 kW

MXF
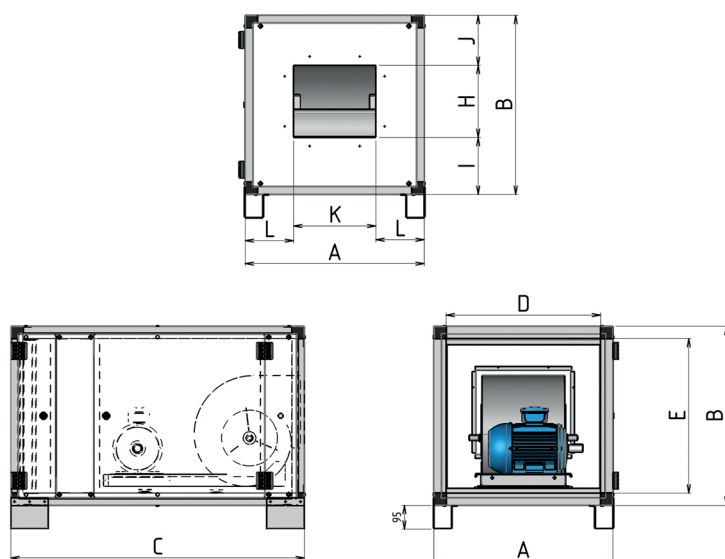
MXH
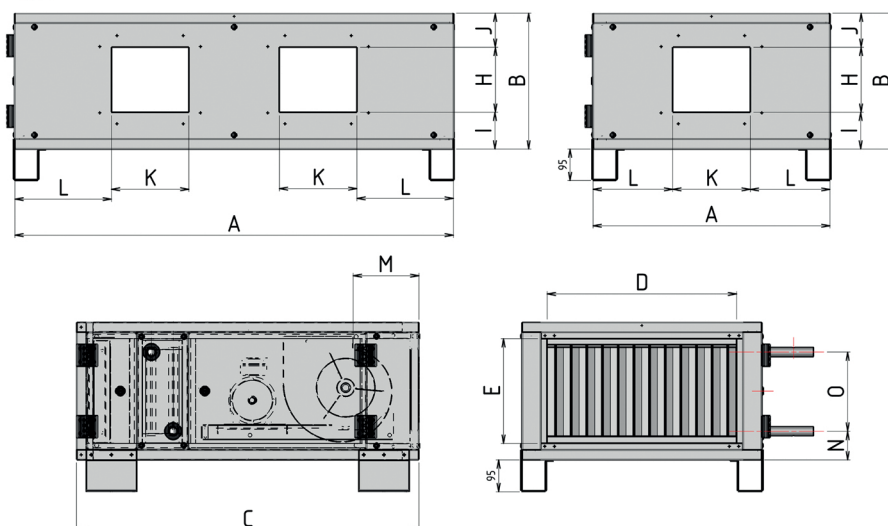
	Dimensions																		
	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	H [mm]	I [mm]	J [mm]	K [mm]	L [mm]	M [mm]	N [mm]	O [mm]	P [mm]	Q [mm]	Ø ["]	Ø [mm]	[kg]
MXF 12/07	715	410	1020	655	350	196	112	102	234	240	-	-	-	-	-	-	2 x 315	43
MXF 22/09	715	715	1175	655	655	259	200	257	294	210	-	-	-	-	-	-	2 x 560	86
MXF 22/10	715	715	1175	655	655	288	27	200	329	193	-	-	-	-	-	-	2 x 560	94
MXF 23/12	1020	715	1325	960	655	343	254	119	392	314	-	-	-	-	-	-	2 x 560	112
MXF 33/15	1020	1020	1480	960	960	402	305	355	469	297	-	-	-	-	-	-	2 x 800	153
MXF 34/18	1370	1060	1520	1270	960	476	367	218	555	406	-	-	-	-	-	-	2 x 800	183
MXF-W 12/07	715	410	1020	655	350	196	112	102	234	240	171	85	236	224	65	3/4	2 x 315	40/43*
MXF-W 22/09	715	715	1175	655	655	259	200	257	294	210	157	91	528	226	65	1	2 x 560	82/86*
MXF-W 22/10	715	715	1175	655	655	288	227	200	329	193	192	91	528	226	65	1	2 x 560	88/94*
MXF-W 23/12	1020	715	1325	960	655	343	254	119	392	314	212	91	528	224	65	1	2 x 560	105/112*
MXF-W 33/15	1020	1020	1480	960	960	402	305	355	469	297	295	109	839	245	65	1.5	2 x 800	146/153*
MXF-W 34/18	1370	1060	1520	1270	960	476	367	218	555	406	312	109	839	245	65	1.5	2 x 800	172/183*
* 2R/4R																		